

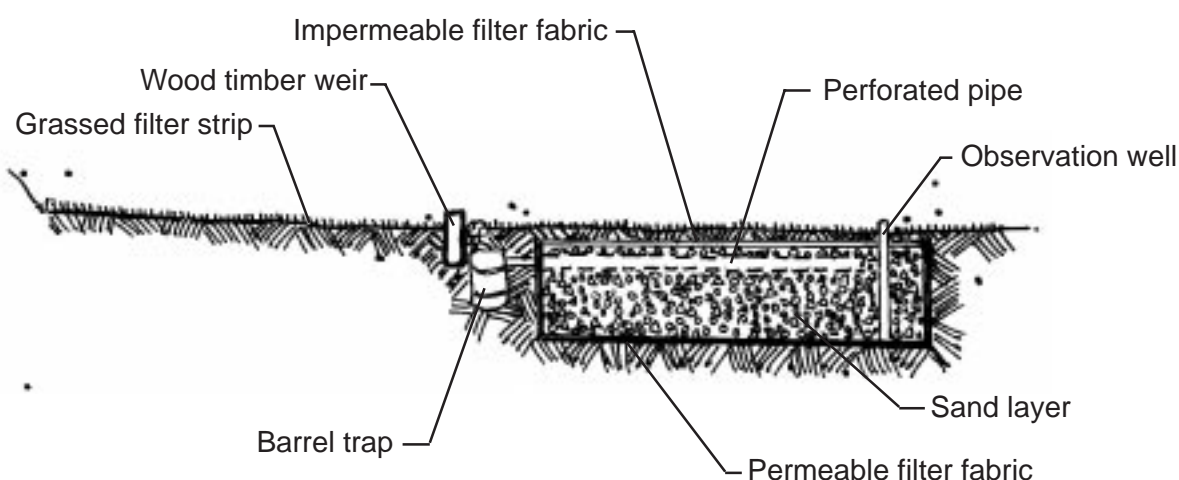
**PRIMARY USE:** Treat storm water runoff, and avoid problems associated with trench or swale surfaces.  
**ADDITIONAL USES:**

## UNDER-THE-SWALE INFILTRATION TRENCH

**What is it?** The under-the-swale infiltration trench is designed to correct the inconvenience associated with exposed trenches located in swales in residential areas. In this BMP a wood timber weir is placed across the swale with a barrel inlet dropped in at its base to trap sediment. A perforated pipe is extended from the barrel along the top of the trench to distribute water evenly. This arrangement permits covering the trench with a minimum of two layers of filter fabric and 6-12 in(152-305 mm) of soil as a planting medium for turf.

### Purpose

The covered trench makes it easily passable by users of the area.



**Under-the-Swale Infiltration Trench  
Section View**

### Limitations

Heavy traffic over trenches should be minimized.

### Materials

Wood timbers, railroad ties, perforated PVC and pipe suitable, sand, gravel, filter fabric, soil suitable as a planting medium, turf.

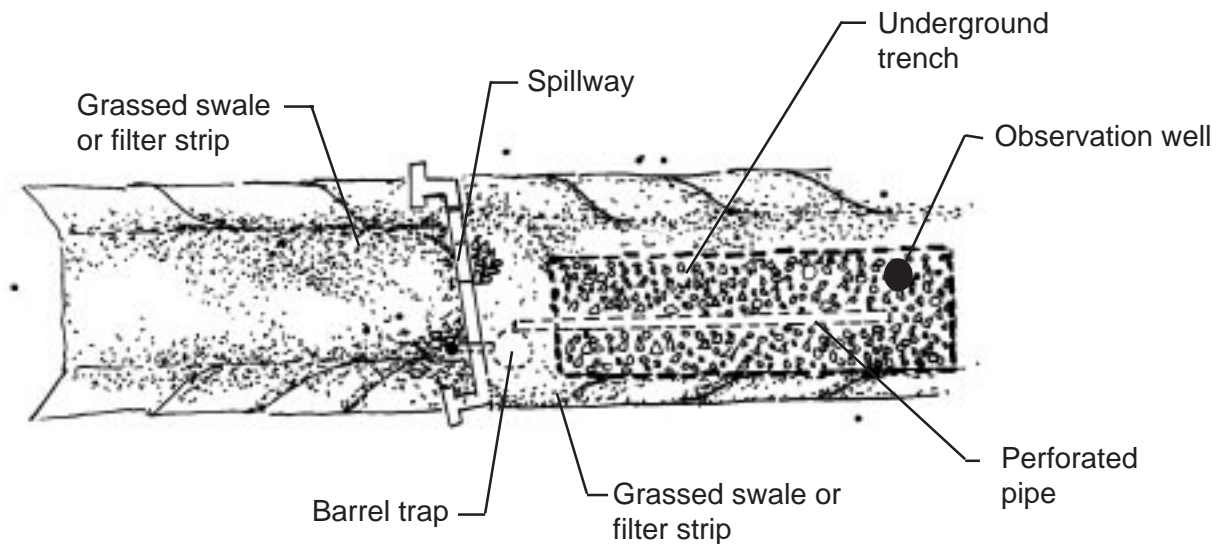
### Installation

Trenches must be kept free of sediment build-up. Therefore, careful construction to avoid soil in the filtration media is critically important, as is the installation of the grass filter strip.

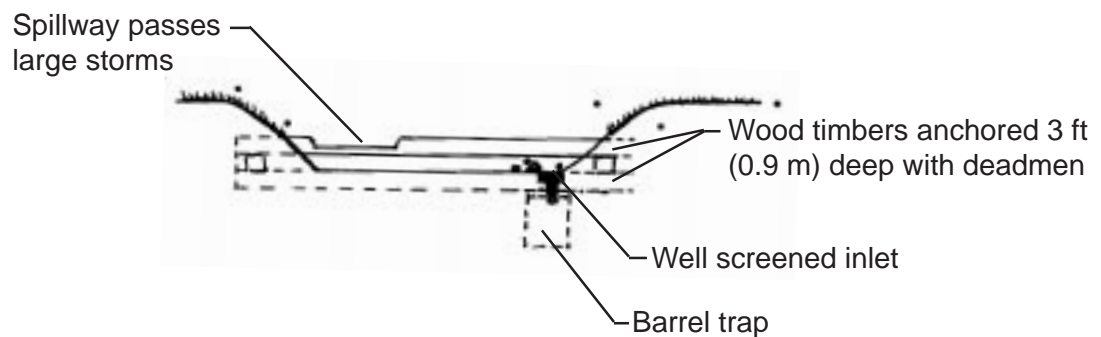
**Source:** Controlling Urban Runoff, Metropolitan Washington.

## UNDER-THE-SWALE INFILTRATION TRENCH

### Additional Drawings:



**Under-the-Swale Infiltration Trench  
Plan View**



**Swale  
Section View**